

Supplementary Table 3: Absolute Quantification of forty-nine cellular and ECM proteins in Native and Decellularized Lung

Protein	Gene	Classification	Native nmol/g	Native ugs	Native SEM (%) [‡]	Decel nmol/g	Decel ugs	Decel SEM (%) [‡]	% Retained	
Annexin A2	ANXA2	Cellular	17.652	39.73	9.20	0.481	0.37	4.40	0.94%	
Annexin A4	ANXA4	Cellular	4.551	9.49	10.77	0.053	0.04	11.85	0.40%	
Sushi-domain containing Protein 2	SUSD2	Cellular	0.635	3.34	11.47	0.040	0.07	8.45	2.16%	
Actin Alpha Skeletal Muscle	ACTA1	Cellular	142.765	349.34	10.23	3.188	2.70	12.49	0.77%	
Actin, cytoplasmic 1	ACTB	Cellular	165.714	402.47	10.98	3.258	2.74	5.45	0.68%	
Myosin3	MYH	Cellular	0.958	12.42	17.66	0.113	0.51	10.38	4.07%	
Vimentin	VIM*	Cellular	11.132	34.81	13.19	0.496	0.54	20.81	1.54%	
Desmin	DES	Cellular	1.429	4.44	2.31	0.185	0.20	7.24	4.49%	
Plectin	PLEC	Cellular	0.317	9.84	9.70	0.038	0.41	7.70	4.12%	
Spectrin alpha chain, isoform 2	SPTA2	Cellular	1.298	21.50	11.00	0.024	0.14	6.61	0.63%	
Tubulin beta-4B chain	TUBB	Cellular	30.768	88.78	10.80	0.972	0.97	3.34	1.10%	
Histone 2A	H2A	Cellular	123.004	100.76	8.47	3.949	1.12	4.85	1.11%	
Collagen alpha-1(I) chain	COL1A1*	Collagens	2.312	18.56	8.39	7.600	21.15	14.16	113.96%	
Collagen alpha-1(IV) chain	COL4A1	Collagens	1.474	13.77	7.38	1.346	4.36	1.64	31.65%	
Collagen alpha-2(IV) chain	COL4A2	Collagens	1.075	10.09	5.67	1.666	5.42	2.90	53.73%	
Collagen alpha-1(VI) chain	COL6A1	Collagens	14.206	89.94	3.03	17.149	37.64	8.16	41.84%	
Collagen alpha-2(VI) chain	COL6A2*	Collagens	13.780	87.06	4.99	15.898	34.82	6.90	39.99%	
Collagen alpha-3(VI) chain	COL6A3	Collagens	3.189	53.47	2.99	3.340	19.41	6.41	36.30%	
Collagen alpha-5(VI) chain	COL6A5	Collagens	0.367	6.19	10.29	0.247	1.44	2.15	23.30%	
Collagen alpha-1(VII) chain	COL7A1	Collagens	0.080	1.38	15.90	0.052	0.31	23.64	22.50%	
Collagen alpha-1(XIV) chain	COL14A1	Collagens	0.206	2.30	13.19	0.099	0.38	16.07	16.63%	
Collagen alpha-1(XVIII) chain	COL18A1	Collagens	0.283	3.01	6.67	0.059	0.22	8.26	7.17%	
Laminin subunit alpha-2	LAMA2	Glycoprotein	0.104	2.05	10.34	0.014	0.10	8.06	4.76%	
Laminin subunit alpha-5	LAMA5*	Glycoprotein	0.577	13.59	5.10	0.390	3.18	9.49	23.40%	
Laminin subunit Beta-1	LAMB1*	Glycoprotein	0.217	2.49	10.20	0.045	0.18	12.53	7.27%	
Laminin subunit Beta-2	LAMB2*	Glycoprotein	0.578	6.61	7.75	0.309	1.23	5.17	18.54%	
Laminin subunit gamma-1	LAMC1	Glycoprotein	0.941	9.71	5.58	0.330	1.18	11.61	12.15%	
Dermatopontin	DPT [‡]	Glycoprotein	0.827	1.16	16.35	0.098	0.05	10.76	4.11%	
Extracellular Matrix Protein 1	ECM1*	Glycoprotein	0.497	1.83	14.74	0.044	0.06	12.74	3.09%	
EGF-containing Fibulin like ECM Protein	EFEMP2	Glycoprotein	0.337	0.97	13.16	0.043	0.04	8.51	4.43%	
Emilin-1	EMILIN1	Glycoprotein	0.570	3.54	5.81	0.230	0.50	4.62	14.02%	
Fibulin-1	FBLN1	Glycoprotein	0.313	1.37	18.30	0.030	0.05	10.96	3.36%	
Fibulin-5	FBLN5	Glycoprotein	3.095	9.03	0.97	0.189	0.19	1.76	2.12%	
Fibrillin-1	FBN1*	Glycoprotein	0.867	15.74	8.75	0.152	0.95	14.26	6.07%	
Matrix Gla protein	MGP [‡]	Glycoprotein	0.569	0.40	9.45	0.213	0.05	20.08	12.96%	
Nidogen-1	NID1	Glycoprotein	0.136	1.08	25.45	0.035	0.10	3.26	8.83%	
Nidogen-2	NID2	Glycoprotein	0.204	1.81	18.73	0.028	0.09	13.10	4.69%	
Periostin	POSTN*	Glycoprotein	4.739	25.69	14.87	0.232	0.44	9.15	1.70%	
Tenascin C	TNC	Glycoprotein	0.119	1.53	13.05	0.038	0.17	30.61	11.22%	
Tenascin X	TNXB*	Glycoprotein	0.123	3.31	14.62	0.024	0.22	25.92	6.78%	
Biglycan	BGN	Proteoglycan	1.315	3.19	6.99	0.082	0.07	1.00	2.17%	
Decorin	DCN	Proteoglycan	3.389	7.85	4.19	0.130	0.10	12.24	1.33%	
Perlecan	HSPG2	Proteoglycan	0.416	9.08	2.63	0.168	1.27	2.12	14.00%	
Lumican	LUM	Proteoglycan	5.216	11.62	7.72	0.182	0.14	4.67	1.21%	
Osteoglycin	OGN	Proteoglycan	3.265	6.47	5.54	0.752	0.52	3.35	7.98%	
Prolargin	PRELP*	Proteoglycan	1.949	4.90	10.80	0.117	0.10	11.58	2.08%	
Bone Marrow Proteoglycan	PRG2	Proteoglycan	1.149	1.68	8.77	0.188	0.10	19.16	5.69%	
Osteopontin	SPP1	Proteoglycan	0.180	0.37	10.44	0.025	0.02	8.41	4.85%	
Transglutaminase 2	TGM2*	ECM Regulator	2.118	9.50	8.89	0.059	0.09	6.24	0.96%	
Agrin	AGN	GlycoProtein	<i>Below the Limit of Quantification</i>							
Collagen alpha-1(II) chain	COL2A1	Collagens	<i>Poor standard peptide, subject to ion suppression</i>							
Galectin-3	LGALS3	ECM Associated	<i>Poor standard peptide, subject to ion suppression</i>							
Laminin subunit alpha-1	LAMA1	GlycoProtein	<i>Below the Limit of Quantification</i>							
Matrilin-1	MATN1	GlycoProtein	<i>Below the Limit of Quantification</i>							
Vitronectin	VTN	GlycoProtein	<i>Poor standard peptide, subject to ion suppression</i>							